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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/806,338	03/23/2004	Yusuke Ohashi	62807-177	2206	
20457 ANTONELLI.	7590 08/10/2007 TERRY, STOUT & KRAU	EXAMINER			
1300 NORTH	1300 NORTH SEVENTEENTH STREET			MARTINEZ, DAVID E	
SUITE 1800 ARLINGTON,	N, VA 22209-3873		ART UNIT	PAPER NUMBER	
			2181		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/806,338	OHASHI ET AL.			
		Examiner	Art Unit			
		David E. Martinez	2181			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the o	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	Responsive to communication(s) filed on 29 Ju	ine 2007.	•			
·	This action is FINAL . 2b) This action is non-final.					
· —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
	4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.					
-	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
· · · · · · · · · · · · · · · · · · ·	6)⊠ Claim(s) <u>1,7 and 8</u> is/are rejected.					
· <u> </u>	Claim(s) <u>2-6 and 9</u> is/are objected to.					
•	Claim(s) are subject to restriction and/or	r election requirement				
		olootion roquiroment.				
Applicati	on Papers					
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>23 <i>March 2004</i></u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachmen	nt(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	oate			
	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	5) Motice of Informal F	-ателт Аррисатіоп			
	. 555. 15(5), 1161. 561.					

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/29/07 has been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 7, and 8 are rejected under 35 U.S.C. 102(e) as being anticipated by US Patent No. 6,820,168 to Tanaka et al. (hereinafter Tanaka).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

With regards to claim 1 and 7, Tanaka teaches a method of controlling enablement/disablement of I/O requests from plural host computers to a disk device [abstract], said method comprising:

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in said host computers [fig 1 elements 110, 120 - column 4 lines 68-41],

transmitting access-right change commands [fig 4 element 455 – column 7 lines 1-6] to said disk device [fig 1 element 170 – column 4 line 58 to column 5 line 3], said access-right change commands [fig 4 element 455] including one piece or plural pieces of information having I/O-enable/disable information and host identification information to correspond to each other in a one-to-one correspondence manner [fig 4 element 455 shown in detail in fig 7 comprised of different modules], said I/O-enable/disable information indicating whether or not said disk device will execute said I/O requests from said host computers [fig 7 element 655 which shows "exclusion control" and can also be as shown in the fig 6 table, "priority control", "O" for access permitted, and "X" for access excluded - column 9 lines 14-29 and column 8 lines 29-59], said host identification information identifying said respective host computers [fig 7 element 650 – column 9 lines 14-29], and

issuing, to said disk device [fig 1 element 170], said I/O requests to which said host computers have added said host identification information [column 4 lines 38-41] and in said disk device [fig 1 element 170],

changing a batch of said I/O enable/disable information on each host-computer basis in accordance with said access-right change commands from said host computers [column 8 lines 29-59], and storing and holding said I/O enable/disable information in an access-right management table [fig 1 elements 182, 183, and 185 shown in detail as fig 6 element 500],

identifying request-source host computers in response to said I/O requests from said host computers [column 5 lines 3-6 and column 7 lines 16-20], and,

based on said host identification information and said I/O enable/disable information held in said access-right management table, enabling or disabling said I/O requests

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to be executed on each host-computer's node basis [column 7 lines 16-20 and column 8 lines 29-59].

With further to claim 8, Tanaka teaches an information processing system configured to control execution enablement/disablement of I/O requests from plural host computers to a disk device [abstract], comprising:

each of said host computers [fig 1 elements 110, 120 – column 4 lines 68-41] including:

an I/O request unit [fig 1 elements 117, 118, 127, 128] for issuing an I/O request

[fig 1 element 130] to which said I/O request unit has added host identification information [fig 1 modules inside element 130] for identifying said respective host computers [column 4 lines 38-56], and

an access-right change command unit for transmitting an access-right change commands [fig 4 element 455 – column 7 lines 1-6] to said disk device [fig 1 element 170 – column 4 line 58 to column 5 line 3], said access-right change commands [fig 4 element 455] including one piece or plural pieces of information having I/O-enable/disable information and said host identification information to correspond to each other in a one-to-one correspondence manner [fig 4 element 455 shown in detail in fig 7 comprised of different modules], said I/O-enable/disable information indicating whether or not said disk device will execute said I/O requests from said host computers [fig 7 element 655 which shows "exclusion control" and can also be as shown in the fig 6 table, "priority control", "O" for access permitted, and "X" for access excluded - column 9 lines 14-29 and column 8 lines 29-59], and

said disk device [fig 1 element 170] including:

an access-right management table [fig 1 elements 182, 183, and 185 shown in detail as fig 6 element 500] for storing and holding said access-right change commands from said host computers [column 8 lines 29-59],

an access control unit [fig 4 element 462] for identifying request-resouce host computers of said I/O requests, and for judging whether to enable/disable said I/O requests to be executed on each host-computer basis, based upon said host identification information and said access-right management table [column 7 lines 16-20, column 8 lines 29-59], and

an access-right change unit that [fig 4 element 470], in accordance with said access-right change commands from said host computers within said access-right management table, changes in a batch of said I/O enable/disable information on each host-computer basis [column 7 lines 21-27],

said disk device enabling or disabling said I/O requests on each host-computer's node basis, with said host computers being said I/O request sources [column 7 lines 16-20, column 8 lines 29-59].

Allowable Subject Matter

Claims 2-6, and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 101 set forth in this Office action and also if rewritten in independent form to include all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

With regards to claim 2, the prior art of record, alone or in combination fail to teach or fairly suggest:

in said host computers,

transmitting path information to said disk device, said path information having said host identification information and path identification information to correspond to each other, said path identification information identifying all of logical paths from said host computers to said disk device, and

issuing said I/O requests to which said host computers have added said path

identification information; and

in said disk device,

storing and holding said path identification information transmitted from said host

computers,

extracting said path identification information from said I/O requests transmitted

from said host computers, extracting said host identification information corresponding to

said path identification information stored and held, and extracting said O/O-

enable/disable information with which said host identification information extracted

coincides, and

using said extracted I/O enable/disable information, to enable or disable each I/O

request for said I/O requests on each host-computer's node basis.

Claims 5-6 depend directly or indirectly from claim 2 above and thus are indicated as

being allowable subject matter for the same reasons.

With regards to claim 3, the prior art of record, alone or in combination fail to teach or

fairly suggest:

If an I/O-disable command is included in said I/O-enable information in said access-right

change commands transmitted from said computers,

then in said disk device,

extracting, from among said access-right change commands, host identification

information corresponding to said I/O-enable/disable information with respect to all of I/O

disable commands included in said same access-right change commands, and

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updating said I/O-enable/disable information for host identification information into an I/O-disable state, said host identification information coinciding with said host identification information extracted and being stored and held in said disk device, and

if an I/O-enable command is included in said I/O-enable/disable information in said access-right change commands transmitted from said host computers,

then in said disk device,

extracting, from among said access-right change commands, host identification information corresponding to said I/O-enable/disable information with respect to all of I/O-enable commands included in said same access-right change commands, and

updating said I/O-enable/disable information for host identification information into an I/O-enable state, said host identification information coinciding with said host identification information extracted and being stored and held in said disk device.

Claim 4 depends from claim 3 and thus is indicated as being allowable subject matter for the same reasons.

With regards to claim 9, the prior art of record, alone or in combination fail to teach or fairly suggest a system having a path-information transmission unit, a path-management table, a I/O request unit, and a access control unit, implementing the method steps of claim 2 as disclosed above.

Response to Arguments

Applicant's "Statement of Substance" dated June 29,07 appears to have been a misunderstanding and is respectfully disagreed upon by the Examiner. During the telephone conversation on June 27, the Examiner acknowledged that the amendment dated May 29,2007 would not overcome the rejection. What the Examiner acknowledged as requiring further search and consideration (if submitted as a proper amendment) was the proposed amendment

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1057 (Fed. Cir. 1993).

to claim 1 found in page 15 of Applicant's remarks. The above was also noted in the advisory action mailed to the Applicant on 7/3/07.

Applicant's arguments filed 5/29/07 have been fully considered but they are not persuasive. Below, please find the Examiner's rebuttal to Applicant's arguments as found in the above mentioned Advisory Action.

"In the remarks (pages 13-14), Applicant's arguments directed to the "changing a batch of said I/O-enable/disable information on each host-computer basis in accordance with said access-right change commands from said host computers" are not persuasive.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., "in response to the access-right change command from the host computers, the I/O enable/disable feature concerning a plurality of host computers (different paths) are changed or revised *all together* at a time in batch processing by the disk device") are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the

The anticipation of the argued limitation is taught by Tanaka, in column 8 lines 29-59, and in particular, lines 54-57 which recite "These

specification are not read into the claims. See In re VanGeuns, 988 F.2d 1181, 26 USPQ2d

Exclusion/Priority control tables are created or *modified* by the Setting Table Program in accordance with the control frame 455 sent from

either server #0 or #1 (110, 120) via the LAN 145 when the program receives this frame". The

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cited text teaches the changing of a batch

of said I/O-enable/disable information on each host-computer basis in accordance with said access-right change commands from said

host computer which is done by the Setting Table Program by modifying (changing a batch - the batch being one or more) the

Exclusion/Priority control tables (I/O-enable/disable information of each host) when it received the control frame 455 (the access-right

change command(s) from the servers #0 or #1 (from the host computers).

Furthermore, the proposed amendment for claim 1 found in page 15 of the remarks raises new issues that would require new consideration and search."

Conclusion

All claims are drawn to the same invention claimed in the application prior to the entry of the submission under 37 CFR 1.114 and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the application prior to entry under 37 CFR 1.114. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action after the filing of a request for continued examination and the submission under 37 CFR 1.114. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR

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1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David E. Martinez whose telephone number is (571) 272-4152. The examiner can normally be reached on 8:30-5:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alford Kindred can be reached on 571-272-4037. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DEM

ALFORD KINDRED PRIMARY EXAMINER